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Internet Traffic Engineering by Optimizing OSPF Weights - Fortz, Thorup (2000) (Correct) (25 citations)  
virtual leased lines. Keywords-OSPF, **MPLS, traffic engineering**, local search, hashing tables, dynamic  
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RATES: A Server for MPLS Traffic Engineering - Aukia, Kodialam, Koppol.. (2000) (Correct) (10 citations)  
Network Magazine 1 Rates: A Server For **Mpls Traffic Engineering** P. Aukia, M. Kodialam, P. V. Koppol, T.  
[www.bell-labs.com/user/suter/rates.ps.gz](http://www.bell-labs.com/user/suter/rates.ps.gz)

Minimum Interference Routing with Applications to MPLS.. - Kodialam, Lakshman (2000) (Correct) (10 citations)  
Interference Routing with Applications to **MPLS Traffic Engineering** Murali Kodialam T. V. Lakshman Bell  
[www.ieee-infocom.org/2000/papers/459.ps](http://www.ieee-infocom.org/2000/papers/459.ps)

Traffic Engineering using Multiple Multipoint-to-Point LSPs - Saito, Miyao, Yoshida (2000) (Correct) (6 citations)  
by a single p-t-p LSP. Conventional **MPLS traffic engineering** frameworks [3] 4] and mechanisms [5]  
[www.ieee-infocom.org/2000/papers/533.pdf](http://www.ieee-infocom.org/2000/papers/533.pdf)

IP over Optical Networks: A Summary of Issues - Chandhok, Duressi.. (2000) (Correct)  
OXC Control Plane 2.5.1 Overview of The **MPLS Traffic Engineering** Control 2.5.2 OXC Enhancements to  
<ftp://isi.edu/internet-drafts/draft-osu-ipo-mpls-issues-00.ps>

Differentiated Services and Integrated Services Use of MPLS - Horlait, Rouhana (Correct)  
services, RSVP, differentiated services, **MPLS, traffic engineering** [9] and constraint-based routing. Some  
[www-rp.lip6.fr/~eh/Files/mpls.pdf](http://www-rp.lip6.fr/~eh/Files/mpls.pdf)

Recent Trends in Networking Recent Trends in Networking.. - Raj Jain Raj (Correct)  
University 32 Traffic Engineering Using **MPLS Traffic Engineering** Using MPLS q Traffic Engineering =  
<ftp://netlab.ohio-state.edu/pub/jain/talks/hipc982.ps>

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Searching for **fec and label**.

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Results of the Abbadingo One DFA Learning Competition and a... - Lang, Pearlmutter (1998) (Correct)  
 (11 citations)

Barak A. Pearlmutter Comp Sci Dept, FEC 313 Univ of New Mexico Albuquerque, NM 87131  
 with a set of training strings that had been labeled Lang and Pearlmutter ran the Abbadingo  
 target concept) and was required to predict the labels that the target would assign to a set of testing  
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RATES: A Server for MPLS Traffic Engineering - Aukia, Kodialam, Koppol.. (2000) (Correct) (10 citations)

MPLS network into "forwarding equivalence classes" FECs) 5]6]The classification into FECs is done  
 classes" FECs) 5]6]The classification into FECs is done using packet filters that examine header  
 of the most significant reasons for Multi-Protocol Label Switched (MPLS) network deployment is network  
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Minimum Interference Routing with Applications to MPLS.. - Kodialam, Lakshman (2000) (Correct)  
 (10 citations)

MPLS network into "forwarding equivalence classes" FECs) 15]5]The classification into FECs is done  
 classes" FECs) 15]5]The classification into FECs is done using packet filters that examine header  
 in which these problems arise is that of dynamic label switched path (LSP) set-up in Multi-Protocol  
[www.ieee-infocom.org/2000/papers/459.ps](http://www.ieee-infocom.org/2000/papers/459.ps)

Results of the Abbadingo One DFA Learning Competition.. - Lang, Pearlmutter, Price (1998) (Correct)  
 (10 citations)

08540, kevin@research.nj.nec.com 2 Comp Sci Dept, FEC 313, Univ of New Mexico, Albuquerque, NM 87131,  
 with a set of training strings that had been labeled by an unseen deterministic finite automaton  
 target concept) and was required to predict the labels that the target would assign to a set of testing  
[www.cs.unm.edu/~bap/papers/icgi98.ps.gz](http://www.cs.unm.edu/~bap/papers/icgi98.ps.gz)

Traffic Engineering using Multiple Multipoint-to-Point LSPs - Saito, Miyao, Yoshida (2000) (Correct) (6 citations)

traffic of the same Forwarding Equivalence Class (FEC) 1]or to some portion of it. Hereafter, we  
 8 6 Ingress node lsp 2 3 Working route Spare route FEC element Label Label Next Hop Next Hop working  
 scheme using multiple multipoint-to-point (m-t-p) Label Switched Paths (LSPs) which can reduce the number  
[www.ieee-infocom.org/2000/papers/533.pdf](http://www.ieee-infocom.org/2000/papers/533.pdf)

MPLS: The Magic Behind the Myths - Armitage (2000) (Correct) (3 citations)

Group gives the name forwarding equivalence class (FEC) to each set of packet flows with common  
 tree between all the edge LSRs for each identifiable FEC. The label -virtual path/channel identifier  
 is not a requirement. INTRODUCTION Multiprotocol label switching (MPLS) is the convergence of  
[www.ces.clemson.edu/~rsass/courses/NRG/Papers/Armitage.pdf](http://www.ces.clemson.edu/~rsass/courses/NRG/Papers/Armitage.pdf)

Minimum Interference Routing of Bandwidth Guaranteed.. - Kar, Kodialam, Lakshman (2000) (Correct)  
 (3 citations)

MPLS network into "forwarding equivalence classes" FECs) 13]4]The classification into FECs is done  
 classes" FECs) 13]4]The classification into FECs is done using packet filters that examine header  
 in which these problems arise is that of dynamic label switched path (LSP) set-up in Multi-Protocol  
[www.glue.umd.edu/~koushik/jsacmpls.ps.gz](http://www.glue.umd.edu/~koushik/jsacmpls.ps.gz)

Inter-Domain LSP Setup Using Bandwidth Management Points - Okumus, Hwang, Mantar, Chapin (Correct)  
 (1 citation)

are associated with forwarding equivalency classes (FEC) and are local to that particular link. Peer LSRs  
 separate LSPs can be established for a single (FEC,OA) pair[19]PSC information is signalled during  
 this paper we propose a way to setup inter-domain Label Switched Path (LSP) with the help of a BMP in a  
[web.syr.edu/~iokumus/pages/./resources/Globecomm2001.pdf](http://web.syr.edu/~iokumus/pages/./resources/Globecomm2001.pdf)

Restoration by Path Concatenation: Fast Recovery of MPLS.. - Afek, Bremner-Barr, Kaplan (2001) (Correct)

## RATES: A Server for MPLS Traffic Engineering

(2000) (Make Corrections) (17 citations)

P. Aukia, M. Kodialam, P. V. Koppol, T. V. Lakshman, H. Sarin,  
B. Suter

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**Abstract:** It has been suggested that one of the most significant reasons for Multi-Protocol Label Switched (MPLS) network deployment is network traffic engineering. The goal of traffic engineering is to make best use of the network infrastructure and this is facilitated by the explicit routing feature of MPLS which allows the potential addressing of many shortcomings associated with current IP routing schemes. This paper describes a software system called Routing and Traffic Engineering Server (RATES)... ([Update](#))

**Context of citations to this paper:** [More](#)

.... Multi Path Label Switching (MPLS) TE performs provisioning and admission control functions to optimize network operators objectives [3], [8] [7] The TE mechanism takes two complementary forms, on line and offline [4] [23] On line TE is state dependent and applies on...

...Minimum interference routing algorithm (MIRA) is presented. A server for MPLS traffic engineering using MIRA (RATES) has been given in [14]. In MIRA model, the operation of mapping LSPs to network nodes is represented by decision variable vector Xab. The elements of Xab...

**Cited by:** [More](#)

The Macroscopic Behavior of Internet Traffic: a Comparative.. - Uhlig, Bonaventure (2001) ([Correct](#))

Efficient Network Resource Allocation With QoS Guarantees - Gopalan (2003) ([Correct](#))

Service-Driven Traffic Engineering for Intradomain.. - Trimintzios, Pavlou, al. (2003) ([Correct](#))

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**0.5:** Short bibliography on Traffic control and QoS in IP networks - Bonaventure (2000) ([Correct](#))

**0.5:** Profile-Based Routing: A New Framework for MPLS Traffic.. - Suri, Waldvogel, Warkhede (2000) ([Correct](#))

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**Related documents from co-citation:** [More](#) [All](#)

**9:** Multiprotocol Label Switching Architecture (context) - Rosen, Viswanathan et al. - 1998

**7:** An architecture for differentiated services (context) - Blake, Black et al. - 1998

**6:** A Management and Control Architecture for Providing IP Differentiated Services i.. - Trimintzios, Andrikopoulos et al. - 2001

**BibTeX entry:** ([Update](#))

P. Aukia, M. Kodialam, P.V.N. Koppol, T.V. Lakshman, H. Sarin, and B. Suter, "RATES: A server for MPLS traffic engineering," IEEE Network Magazine, pp. 34–41, March/April 2000. <http://citeseer.ist.psu.edu/aukia00rates.html>  
[More](#)

```
@misc{ aukia00rates,
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```
author = "P. Aukia and M. Kodialam and P. Koppol and T. Lakshman and H. Sarin and  
B. Suter",
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title = "RATES: A server for MPLS traffic engineering",
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text = "P. Aukia, M. Kodialam, P.V.N. Koppol, T.V. Lakshman, H. Sarin, and B. Sute
```

Alternate document: [Details](#) **Minimum Interference Routing of Bandwidth Guaranteed Tunnels with MPLS Traffic Engineering Applications (00)** Koushik Kar, Murali

**Minimum Interference Routing with Applications to MPLS Traffic Engineering (2000)** ([Make Corrections](#)) ([28 citations](#))  
Murali Kodialam, T.V. Lakshman  
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**Abstract:** This paper presents a new algorithm for dynamic routing of bandwidth guaranteed tunnels where tunnel routing requests arrive one-by-one and there is no a priori knowledge regarding future requests. This problem is motivated by service provider needs for fast deployment of bandwidth guaranteed services and the consequent need in backbone networks for fast provisioning of bandwidth guaranteed paths. Offline routing algorithms cannot be used since they require a priori knowledge of all tunnel...  
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...is investigated in Section III. D. **Minimum Interference Algorithm** The **Minimum Interference Algorithm (MIA)** is an adaptation of algorithm [17], in which new LSPs are allocated so that the impact on current and future allocations is minimal. Our implementation does not provide for...

...QoS paths but also plays an important role in CAC. Several papers have been presented to show the benefit of Multipath QoS routing. In [12], the **dynamic routing algorithm for MPLS networks is proposed where the path for each request is selected to prevent the interface...**

**Cited by:** [More](#)

Survivable Lightpath Routing: A New Approach to the Design.. - Modiano, Narula-Tam ([Correct](#))  
Efficient Network Resource Allocation With QoS Guarantees - Gopalan (2003) ([Correct](#))  
Routing Bandwidth Guaranteed Paths with Local.. - Li, Buddhikot.. ([Correct](#))

**Similar documents (at the sentence level):** [More](#)

**77.7%:** Minimum Interference Routing of Bandwidth Guaranteed.. - Kar, Kodialam, Lakshman (2000) ([Correct](#))  
**16.7%:** RATES: A Server for MPLS Traffic Engineering - Aukia, Kodialam, Koppol.. (2000) ([Correct](#))  
**15.6%:** Integrated Dynamic IP and Wavelength Routing in IP over WDM.. - Kodialam, Lakshman (2001) ([Correct](#))

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**0.3:** Dynamic Routing of Bandwidth Guaranteed Tunnels with.. - Kodialam, Lakshman (2000) ([Correct](#))  
**0.3:** Steiner Trees and Beyond: Approximation Algorithms for Network.. - Ravi (1993) ([Correct](#))  
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**18:** Multiprotocol Label Switching Architecture (context) - Rosen, Viswanathan et al. - 1998  
**11:** QoS Routing Mechanisms and OSPF Extensions - Guerin, Orda et al. - 1996  
**7:** Network Flows: Theory (context) - Ahuja, Magnanti et al. - 1993

**BibTeX entry:** ([Update](#))

Murali Kodialam, and T. V. Lakshman, "Minimum Interference Routing with Applications to MPLS Traffic Engineering", INFOCOM 2000. <http://citeseer.ist.psu.edu/kodialam00minimum.html> [More](#)

```
@inproceedings{ kodialam00minimum,  
  author = "Murali S. Kodialam and T. V. Lakshman",
```

<http://citeseer.ist.psu.edu/kodialam00minimum.html>

6/23/04

## Switchlets and Resource-Assured MPLS Networks

(2000) (Make Corrections) (3 citations)

Richard Mortier, Rebecca Isaacs, Keir Fraser

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**Abstract:** MPLS (Multi-Protocol Label Switching) is a technology with the potential to support multiple control systems, each with guaranteed QoS (Quality of Service), on connectionless best-effort networks. However, it does not provide all the capabilities required of a multi-service network. In particular, although resource-assured VPNs (Virtual Private Networks) can be created, there is no provision for inter-VPN resource management. Control flexibility is limited because resources must be pinned down... ([Update](#))

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...are not restricted to ATM networks. To support this claim, an implementation over MPLS has been performed and is reported elsewhere [16]. A. The components of the Tempest The Tempest is an implementation of a framework for network control based on the idea of partitioning...

.... resource guarantees may be given [RFC2764, Isaacs00] and hence supporting multiple control systems with resource partitioning [Mortier01] The IETF s INTSERV effort aims to extend the Internet service model to support multimedia and data traffic within the same...

**Cited by:** [More](#)

Dynamic Provisioning of Resource-Assured and Programmable Virtual .. - Isaacs (2000) ([Correct](#))

Internet traffic engineering - Mortier (2002) ([Correct](#))

Elastic Network Control: An Alternative to Active Networks - Bos, Isaacs, Mortier, Leslie ([Correct](#))

**Active bibliography (related documents):** [More](#) [All](#)

0.3: Resource control of untrusted code in an open network environment - Menage (2003) ([Correct](#))

0.2: Open Extensible Network Control - Bos (1999) ([Correct](#))

0.2: Policy Specification for Programmable Networks - Sloman, Lupu (1999) ([Correct](#))

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1.0: Support for Resource-Assured and Dynamic Virtual Private Networks - Isaacs, Leslie (2001) ([Correct](#))

0.7: Lightweight, Dynamic and Programmable Virtual Private Networks - Isaacs (2000) ([Correct](#))

0.5: Integrity for Virtual Private Routed Networks - Bush, Griffin ([Correct](#))

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4: Ospf version (context) - Moy - 1991

2: Integrated services in the internet architecture: an overview - Braden, Clark et al. - 1994

2: a practical framework for network programmability (context) - van der Merwe, Rooney et al. - 1998

**BibTeX entry:** ([Update](#))

Richard Mortier, Rebecca Isaacs, and Keir Fraser. Switchlets and resource-assured MPLS networks. Technical Report No. 510. Cambridge University Computer Laboratory, UK, July 2000.  
<http://citeseer.ist.psu.edu/mortier00switchlets.html> [More](#)

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@misc{ mortier00switchlets,  
  author = "R. Mortier and R. Isaacs and K. Fraser",  
  title = "Switchlets and resource-assured MPLS networks",  
  text = "Richard Mortier, Rebecca Isaacs, and Keir Fraser. Switchlets and resource-  
    MPLS networks. Technical Report No. 510. Cambridge University Computer Laborator  
    UK, July 2000.",  
  year = "2000",  
  url = "citeseer.ist.psu.edu/mortier00switchlets.html" }
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**Citations (may not include all citations):**

645 RSVP: A new resource ReSerVation protocol - Zhang, Deering et al. - 1993

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1 **Reliable transmission of high-quality video over ATM networks**

*Parthasarathy, V.; Modestino, J.W.; Vastola, K.S.;*

Image Processing, IEEE Transactions on , Volume: 8 , Issue: 3 , March 1999

Pages:361 - 374

[\[Abstract\]](#)   [\[PDF Full-Text \(300 KB\)\]](#)   IEEE JNL

2 **New network QoS measures for FEC-based audio applications on the Internet**

*Miyata, T.; Fukuda, H.; Ono, S.;*

Performance, Computing and Communications, 1998. IPCCC '98., IEEE International , 16-18 Feb. 1998

Pages:355 - 362

[\[Abstract\]](#)   [\[PDF Full-Text \(532 KB\)\]](#)   IEEE CNF

3 **Video multicast using layered FEC and scalable compression**

*Wai-Tian Tan; Zakhor, A.;*

Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 11 , Issue: 3 , March 2001

Pages:373 - 386

[\[Abstract\]](#)   [\[PDF Full-Text \(480 KB\)\]](#)   IEEE JNL

4 **A new adaptive FEC scheme for wireless ATM networks**

*Akyildiz, I.F.; Joe, I.; Driver, H.; Ho, Y.L.;*

Military Communications Conference, 1998. MILCOM 98. Proceedings., IEEE , Volume: 1 , 18-21 Oct. 1998

Pages:277 - 281 vol.1

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5 **Simulation of FEC-based error control for packet audio on the Internet**



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<input type="checkbox"/>	L13	l10 and L12	13	
<input type="checkbox"/>	L12	l2 and L11	17	
<input type="checkbox"/>	L11	lsp or (label\$ adj switch\$ adj path\$)	1094	
<input type="checkbox"/>	L10	l2 and L9	21	
<input type="checkbox"/>	L9	mpls or ((multiprotocol\$ or (multi\$ adj protocol\$)) adj label\$ adj switch\$)	1506	
<input type="checkbox"/>	L8	L6 same (route\$ or routing\$)	4	
<input type="checkbox"/>	L7	L6 and (isp or (servic\$ adj provider\$))	4	
<input type="checkbox"/>	L6	l2 near2 tabl\$	20	
<input type="checkbox"/>	L5	l2 near8 tabl\$ near8 label\$	2	
<input type="checkbox"/>	L4	(shar\$ or frac\$) near6 (access\$ or bandwidth\$ or (band width\$))	18059	
<input type="checkbox"/>	L3	l1 and L2	5	
<input type="checkbox"/>	L2	fec or (forward\$ adj equivalen\$ adj class\$)	2435	
<input type="checkbox"/>	L1	(coulter, kenneth)[xa,xp]	460	

END OF SEARCH HISTORY